Corporate Overview
• Small business dedicated to Defense Engineering
  – 240+ employees and ~$40M revenues
  – Certified/accredited in multiple disciplines
  – Multiple TS facility clearances and contract vehicles
  – Workspace and business model designed for collaboration, agility, and innovation
  – Proven prime contractor (results, process, & staff)
  – Virginia Business “Best Places to Work” – 5 years
  – Recognized in Inc.’s 50 best places to work for 2016!
“Imagine. Create. Explore. Discover.”™ Culture

- Agile, employing industry best practices/processes
- Unparalleled retention rates and customer satisfaction
- Innovative use and development of tools and technologies created out of SBIRs

- Corporate core disciplines:
  - Engineering
    - Systems, Software, Cybersecurity, M&S
  - Project Management, acquisition and Logistics
  - Training
Key Experience / Offerings

- Development and management of requirements, design, documentation, prototypes, and plans
- S&T / R&D planning for new tactical capabilities
- Perform Analysis of Alternatives (AoA)
- Model Based Engineering (MBE)
- System training requirements and development
- System test, planning, executing, and analyzing

Program Specifics

- Perimeter protection, ops support, prototype development, Identity Mgmt, Non Lethal Wpn’s
- SEWIP, NULKA, BEWT, SEWTT engineering
- Req Mgmt, Engineering Analysis, System Architecture
- Rapid insertion process, MTAG, CONUS/OCONUS
- CAC2S, SSDS Engineering Support
- Requirements management - Development of System Architectures (DoDAF)
- System engineering for MCSC programs

Customers and Programs

- Navy Anti Terrorism/Force Protection
- Navy Electronic Warfare (EW) systems
- Navy Tomahawk Weapon System
- Navy Z-Omnibus (Z10, 20, 30 and MCSC)
- Navy/USMC Command and Control
- USMC MERS / SEAL
- USMC PfM CES
**Software Engineering**

**Key Experience / Offerings**
- Development of software requirements, design, documentation, prototypes, and plans
- Spiral, Agile and Waterfall software development
- Tactical software development
- Flexible and affordable support tool development
- Development for Open Architecture standards
- “Legacy-to-Open Architecture” conversions
- Legacy Software Conversions & Porting
- JAVA, C, C++, C#, Ada, .net, XML, UML

**Customers and Programs**
- Navy: Anti Terrorism/Force Protection
- Navy: OA Electronic Warfare Programs, and Threat/System Modeling
- Army: Ada to C++ conversion
- Navy: Emergent Technologies
- Navy: Z-Omnibus (H10, A Dept. MCSC)
- USMC: Marine Cyber Architecture
- DAU: ARRT

**Program Specifics**
- Program Specifics Software development for AT/FP systems, in-theater support systems
- Model development and OA transition assessment
- 1 million+ lines of conversion with SimV tool assist
- AI, machine learning and big data
- Rapid insertion process, MTAG, CONUS/OCONUS
- Application of SimV tools to MCSC programs
- Interrelated acquisition support tools
Key Experience / Offerings

- Experience spans spectrum from developing tactical simulation to authoring DoD standards to analytical studies to producing conceptual modeling tools
- Developed key stand-alone and complex, federated simulations
- Primary authors of key standards and specifications (BOM, MSC-DMS, DSEEP)
- Industry leaders through SISO executive roles and 10-year support to DMSCO
- Model Based Engineering

Customers and Programs

- Navy Surface Electronic Warfare
- Navy Shipboard Gridlock System (SGS)
- Navy CBRN
- DMSCO Defense M&S Catalog
- Navy PEO IWS M&S Portal
- DMSCO M&S Community Metadata Standard
- Navy Mid-Range Ballistic Attack Munitions
- Navy Stimulators for SPS Testing

Program Specifics

- Simulation of ship air defense in heavy EW environment
- Wrap-around simulation of track correlation
- Chem-Bio dispersion modeling
- Web Based, DoD-wide M&S Resource Search Tool
- Web-based M&S asset tool (EMBR) to encourage reuse
- Authored DoD standard for M&S metadata
- Ballistics modeling and analysis with GIS visualization
- Laboratory test environment for ship perimeter protection
Cybersecurity Engineering

Key Experience / Offerings
- Integration of cybersecurity into systems engineering and acquisition processes
- Cybersecurity assessments and pen testing
- Certification and Accreditation (C&A) of systems
- Vulnerability scanning and management
- Test planning and execution
- Risk management
- Supply chain analysis Independent validation

Customers and Programs
- Navy Tomahawk Weapon System (TWS)
- Navy Electronic Warfare (EW) systems
- Navy Littoral Combat Ship (LCS)
- Navy Shipboard Protection System (SPS)
- Navy Combat Systems (SSDS, ACDS, Aegis)
- Navy Boundary Defense Cabinet (BDC)
- USMC Common Aviation Command and Control System (CAC2S)
- USMC SEAL

Program Specifics
- Requirements definition, security integration, C&A
- Cybersecurity support to SEWIP, BEWT, SLQ-32, SLQ-59
- Cybersecurity requirements and schedule definition
- C&A, working group guidance, scanning
- End-to-end cybersecurity support, including supply chain
- Requirements definition for interfacing with BDC
- End-to-end cybersecurity support (requirements, C&A, program reviews, working groups, testing)
- Process development for Risk Management Framework
Key Experience / Offerings

- PMI/DAWIA Certified Project Managers (PMP)
- Experienced and flexible staff familiar with the end-to-end acquisition process and products
- Experience with integrating IA, OA and specialty engineering into project schedules
- CMMI Level 3 like and Program Management Book of Knowledge (PMBOK) compatible processes
- Location and facilities enable effective collaboration
- PMaP for visualizing and integrating schedules and risk

Customers and Programs

- Navy Aegis Capability Phasing Plan (CPP)
- Navy Anti-Terrorism/Force Protection
- Navy Electronic Warfare Programs
- USMC MERS / SEAL
- USMC NSC and VSI
- DAU Service Acquisition Mall
- Joint Integrated Base Defense (IBD)

Program Specifics

- Management of Advanced Capability Builds (ACB)
- PM and engineering tools application
- PM tools application to program tracking
- Web development for Acquisition professionals
- Manpower & Systems Functional Task Analysis
- Support site for acquisition professionals
- PM tool application to IBD programs
Key Experience / Offerings

- Navy System Training
- Computer Based Training
- Customized Curriculum Development
- On-Site Training Workshops and Courses
- Documentation Guides and Training Modules for Application Software
- Equipped Facility for Large Group Training

Program Specifics

- EW Shipboard Training
- Developed CBT and deployed mobile training teams
- Developed and conducted tailored training support
- Training and workshops in PBSA service requirements
- Specialized tool application and technical courses customer requests (e.g. Informedb Ent., MagicDraw, C++, etc.)
- EW Tactical Simulator

Customers and Programs

- Navy BEWT/SEWTT
- Navy IDS
- Navy HALLTS
- DAU ARRT
- Other Tool Application and Training Courses as Requested
- Navy Training Devices
A SimVentions discriminator is its ability to develop innovative Engineering and PM tools that can be fielded quickly and offer the following features:

- Provide increased situational awareness by visualizing and accessing the data in user pre-defined (role based) views
- Are developed under the SBIR program and are therefore license free
- Can run on a gov’t server, SimVentions server, or in the cloud
- Can be easily modified to meet specific customer needs
- Augment and integrate commercial tools currently used by our customers (e.g. MS Office, MS Project, DOORS, Enterprise Architect...)

Some of the 30+ Tools that are available to our customers
Leverage SBIR program to support customer needs
  - New technology through Phase I, II
  - Engineering support and tool adaptation/production through Phase III

Competitions through various agencies and vehicles
  - Select team members providing best value engineering and programmatic support team
  - Equally capable as prime or sub on any effort (large or small)

Broad Agency Announcements (BAA)
  - Research ad development of new concepts
“Your Success is Our Honor”™

- SimV is an agile, capable, and innovative small business
- Corporate core disciplines include: Engineering, Project Management, and Training
- We collaborate and partner with industry, government and academia
- We actively serve and give charitably to our local community